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LAW

ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

REPORT OF

PRELIMINARY PETROLEUM CONTAMINATION ASSESSMENT

FORMER OIL/WATER SEPARATOR AREA
FREDRICKSON MOTOR EXPRESS TERMINAL
US HIGHWAY 301 AT NC HIGHWAY 42
WILSON, NORTH CAROLINA

Prepared for:

FREDRICKSON MOTOR EXPRESS CORPORATION

Charlotte, North Carolina

June 30, 1997

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ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

June 30, 1997

Mr. George R. Parks
Director of Operations
Fredrickson Motor Express Corporation
921 East Springfield Road
High Point, North Carolina 27623

Subject: **Report of Preliminary Petroleum Contamination Assessment**
Former Oil/Water Separator Area
Fredrickson Motor Express Terminal Site
US Highway 301 at NC Highway 42
Wilson, North Carolina
LAW Project 30100-7-2628

Dear Mr. Parks:

Law Engineering and Environmental Services, Inc. (LAW) is pleased to submit this report of environmental assessment for the referenced site. This report includes a summary of project background information, a description of our field investigation and sampling activities, laboratory testing results and conclusions/recommendations.

Project Information

We understand that a representative of the Raleigh Regional Office (RRO) of the North Carolina Department of Environment, Health and Natural Resources (NCDEHNR) recently conducted a visit at the Fredrickson Motor Express terminal site in Wilson, North Carolina. The site is located southeast of the intersection of US Highway 301 and NC Highway 42 (Figure 1).

The RRO personnel observed a location formerly containing an oil/water separator that Fredrickson was in the process of excavating. Reportedly, stained soils and water were noted in the excavation by the RRO representative. In response to a concern for potential petroleum contamination, the RRO personnel requested that Fredrickson obtain soil samples for laboratory analytical testing.

2801 YORKMONT ROAD • CHARLOTTE, NC 28208
(704) 357-8600 • FAX (704) 357-8638

Surface-stained soils were also identified adjacent to a concrete foundation pad for an aboveground tank containing new oil. The RRO representative requested that a soil sample also be obtained in the surface-stained area and analyzed for petroleum contamination.

Field Sampling Activities

On June 18, 1997, LAW personnel visited the site to obtain soil samples from the former oil/water separator basin, adjacent drain field and the area containing surface-stained soils. We understand that the general sampling locations were designated by the RRO representative Figure 2 is a sketch of the former oil-water separator area and relative sampling locations.

An excavation was made by Fredrickson personnel using a rubber-tired backhoe at the discharge point to the drain field from the oil/water separator system and at the end of the drain field. The excavation at the end of the drain field was dug to about 4.5 feet below existing grade where relatively undisturbed soils were encountered below the former drain field gravel base. The soils underlying the end of the drain field consisted of gray slightly clayey silty fine sand. The excavation at the oil/water separator system discharge point was about 2 to 3 feet deep. The subgrade soils below former oil/water separator drain field basin backfill consisted of brownish tan and gray clayey sand.

A near-surface soil sample was collected adjacent to the oil tank foundation pad at a depth of about six inches below existing grade. The soil sample was obtained by excavating the surficial gravel using a backhoe bucket and then scraping the underlying soils. The near-surface subgrade soils at the oil tank pad consisted of tan and gray clayey sand to sandy clay.

Soil samples were collected at the base of each excavation using the backhoe bucket. Relatively undisturbed soil clumps were collected from the soils contained in the backhoe bucket using new nitrile gloves. The soil samples were placed in laboratory-supplied containers, which were then labeled with pertinent sampling information. The containers were then placed in an ice-packed cooler. The soil samples were shipped by overnight courier to LAW's national laboratory in Pensacola, Florida. Chain-of-custody procedures were maintained.

LAW measured the ground-water level in a monitoring well located near a former underground storage tank basin about 150 feet west of the oil/water separator site. Ground water was noted at about 8 feet below existing grade in the well.

Laboratory Testing Results

The soil samples were analyzed for oil and grease by EPA Method 9071. Analytical testing detected oil and grease concentrations as high as 231 parts per million in the soil sample collected at the east end of the drain field. No oil and grease concentrations were detected in the soil sample obtained at the west end of the drain field where the oil/water separator system discharged. No oil and grease concentrations were detected in the soil sample collected near the aboveground oil tank foundation pad. The analytical data reports for the soil samples obtained at the site and the chain-of-custody documentation are attached to this report.

Conclusions and Recommendations

The results of our assessment indicate that petroleum-impacted soils were detected at the location of the former oil/water separator system drain field. The NCDEHNR established a minimum action level of 250 ppm for soils containing oil and grease. Based on the analytical results for the soil samples obtained at the site, the oil and grease concentrations in soils below the base of the drain field do not exceed the regulatory action level.

LAW recommends that petroleum-stained soils used to backfill the drain field basin after removal of the piping and the drain field gravel be removed to mitigate potential further impact to the underlying soils and ground water. The excavation should be backfilled using uncontaminated soils.

LAW appreciates the opportunity to provide our professional environmental services to Fredrickson Motor Express Corporation for this project. We are available at your convenience to discuss the contents of this report or other aspects of the project.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

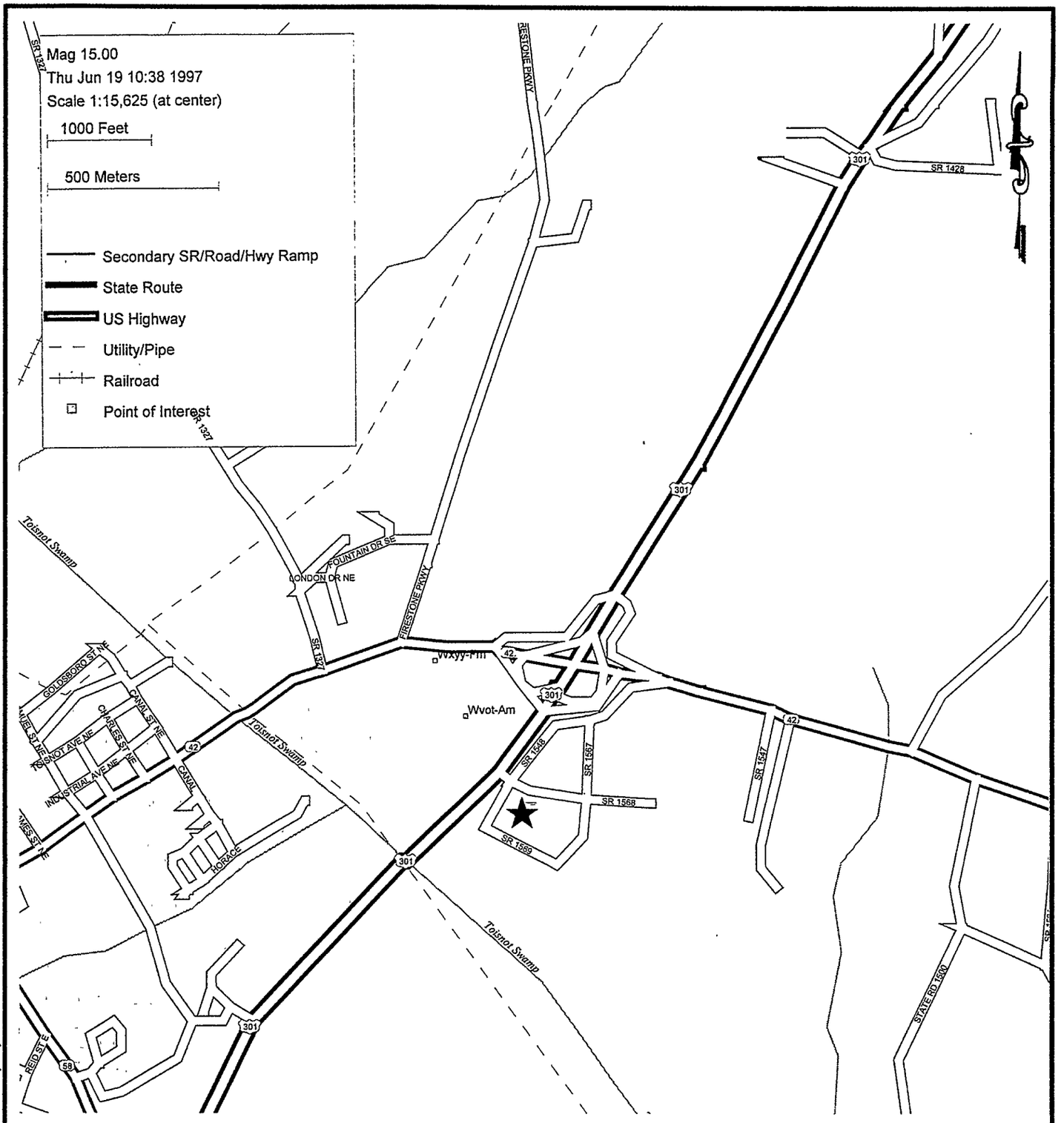
Mark S. Adkins
Project Coordinator

Christopher L. Corbitt, P.G.
Principal

MSA/TWW:ma

Attachments: Figures
Photographs
Laboratory Analytical Data Reports

FIGURES



EXPLANATION

★ APPROXIMATE LOCATION OF SITE

REF: DeLORME STREET ATLAS DATED 1996.

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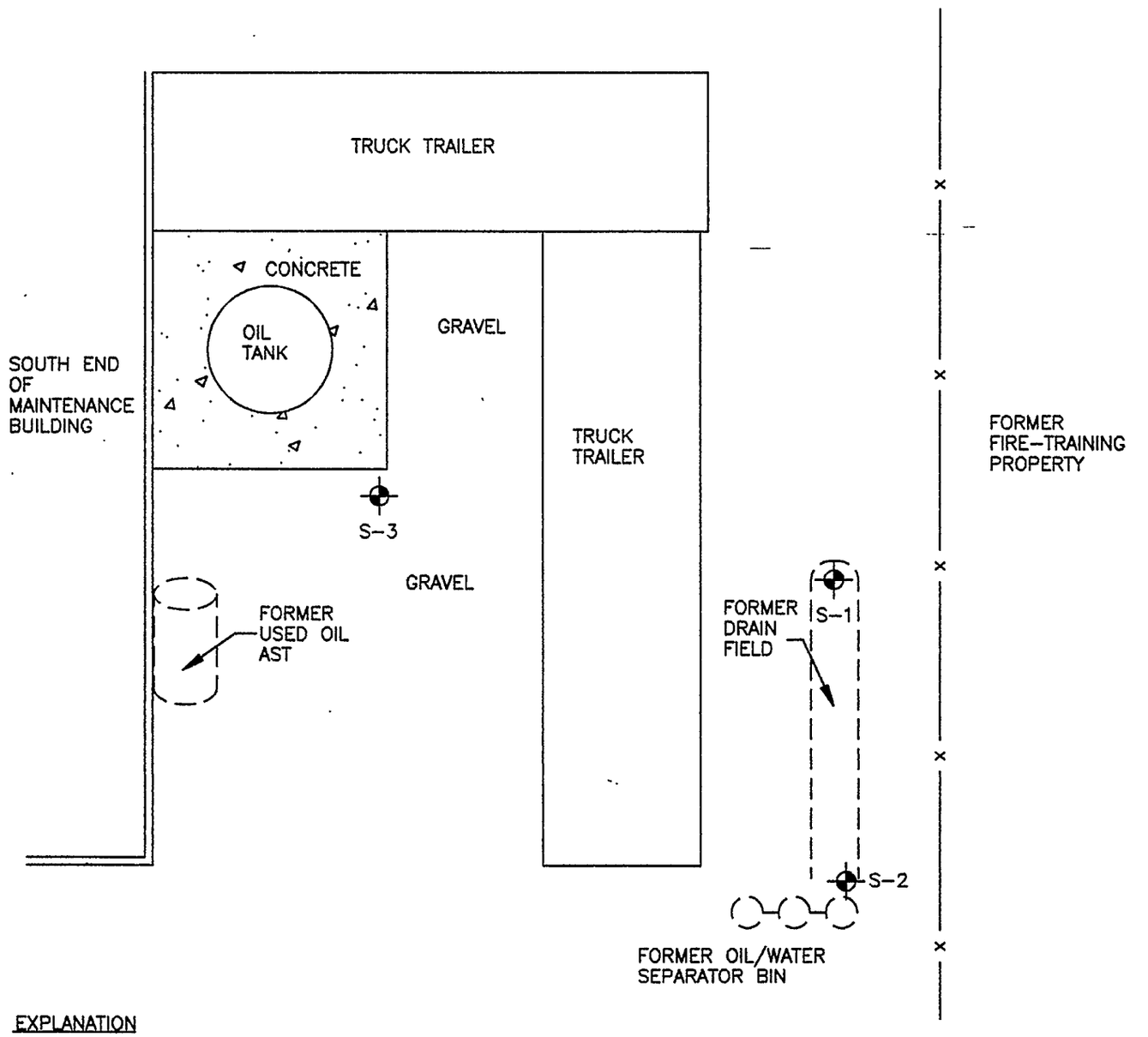
CHARLOTTE, NORTH CAROLINA

SITE LOCATION MAP

FREDRICKSON MOTOR EXPRESS TERMINAL
WILSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED	DATE	JOB NO.	FIGURE
MSA	6-30-97	CLL	6/30/97	30100-7-2628	1

J:\PROJECTS\30100\JOBS\1997\2628\F_SITE 06/26/97 13:10 WCC



EXPLANATION

APPROXIMATE SOIL SAMPLE LOCATION

APPROXIMATE PROPERTY BOUNDARY FENCE LINE

10 5 0 10

APPROXIMATE SCALE IN FEET

REF: SITE SKETCH PREPARED BY LAW ENGINEERING PERSONNEL 6/19/97.

J:\PROJECTS\30100\JOBS\1997\2628\BLP 06/30/97 12:01 WCC

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ENGINEERING AND ENVIRONMENTAL SERVICES
CHARLOTTE, NORTH CAROLINA

SOIL SAMPLE LOCATION PLAN

FREDRICKSON MOTOR EXPRESS TERMINAL
WILSON, NORTH CAROLINA

PREPARED BY	DATE	CHECKED	DATE	JOB NO.	FIGURE
MSA	6-30-97	CLL	6/30/97	30100-7-2628	2

LABORATORY ANALYTICAL DATA REPORTS

LAW

ENGINEERING AND ENVIRONMENTAL SERVICES
3355 McLemore Drive
Pensacola, Florida 32514
(904) 857-0606

June 26, 1997

Mr. Mark Adkins
Law Engineering & Environmental Services, Inc.
2801 Yorkmont Rd Suite 100
Charlotte, NC 28208

Subject: Chemical Analysis of Samples Received on 06/20/97
Fredrickson-Wilson, Project #: 30100-7-2628.01

Dear Mr. Adkins:

Law Engineering & Environmental Services National Laboratories has completed its analysis of your samples and reports the results on the following pages. These results relate only to the contents of the samples as submitted.

If further assistance is needed, please feel free to contact me at (904) 969-6135.

Sincerely,

LAW ENGINEERING & ENVIRONMENTAL SERVICES-NATIONAL LABORATORIES

for Kelli A. Silvia
Project Manager

Enclosures: Data Report
Invoices

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

06/26/97

--- Project Information ---

Mr. Mark Adkins
Law Eng & Envir Services, Inc.
2801 Yorkmont Rd Suite 300
Charlotte, NC 28208

Project Name: FREDRIC2
Fredrickson 30100-7-2628.01

--- Sample Information ---

Station ID: S-1
Lab ID: AB22204
Collector: M. ADKINS

Date Sampled: 06/18/97
Time Sampled: 11:30
Log In Date: 06/20/97
Log In Time: 13:37

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis Date	Tech
623-9071 Oil&Grease Grav. mg/Kg	mg/Kg	SW9071	11.0	231	06/24/97	GV

Remarks:

Signed: _____

Keith R. Greene
Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

06/26/97

--- Project Information ---

Mr. Mark Adkins

Law Eng & Envir Services, Inc.

2801 Yorkmont Rd Suite 300

Charlotte, NC 28208

Project Name: FREDRIC2

Fredrickson 30100-7-2628.01

--- Sample Information ---

Station ID: S-2

Lab ID: AB22205

Collector: M. ADKINS

Date Sampled: 06/18/97

Time Sampled: 12:30

Log In Date: 06/20/97

Log In Time: 13:37

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis Date	Tech
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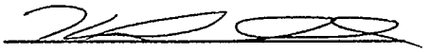
Remarks:

Signed: 

Keith R. Greene

Quality Control Manager

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

06/26/97

--- Project Information ---

Mr. Mark Adkins
Law Eng & Envir Services, Inc.
2801 Yorkmont Rd Suite 300
Charlotte, NC 28208

Project Name: FREDRIC2
Fredrickson 30100-7-2628.01

--- Sample Information ---

Station ID: S-3
Lab ID: AB22206
Collector: M. ADKINS

Date Sampled: 06/18/97
Time Sampled: 01:00
Log In Date: 06/20/97
Log In Time: 13:37

--- Test Information ---

Parameter	Units	Method	Det Lim	Result	Analysis Date	Tech
623-9071 Oil&Grease Grav. mg/Kg	mg/Kg	SW9071	11.9	Not Det	06/24/97	GV

Remarks:

Signed:

Keith R. Greene
Quality Control Manager

LAW ENGINEERING &
ENVIRONMENTAL SERVICES, INC.
3355 McLEMORE DRIVE
PENSACOLA, FLORIDA 32514
(904) 857-0606

CHAIN OF CUSTODY RECORD

10266

SAMPLING INFORMATION
NPDES NUMBER

NAME OF FACILITY:
STREET ADDRESS:

PROJECT NAME: FREDRICKSON - WILSON, NC
JOB NO.: 30400-7-2628
SAMPLERS (SIGNATURE):
SAMPLING DATE: 6-18-97

TIME	GRAB	COMP.	*SOURCE CODE	SAMPLE STATION DESCRIPTION	TOTAL NO. OF CONTAINERS	CONTAINER TYPE: 40 ml G VOA HCl	1 L G - AMBER	8 oz G, W/M	2 oz. G, W/M	1 L G (H_2SO_4)	500 ml - AMBER	1 L, PL (HNO_3)	1 L, PL (H_2SO_4)	1L, PL (NaOH+Ascorbic Acid)	1 L, PL (Zn Acetate + NaOH)	1 L, PL	4 oz PL W/M	250 ml PL	1 L, TEFLON	8 oz	LENL LAB NO.
11:30	✓		SO	S-1	1			1													AB22204
12:30	✓		SO	S-2	1			1													AB22205
1:00	✓		SO	S-3	1			1													AB22206

RELINQUISHED BY. (SIGNATURE)	DATE / TIME	RECEIVED BY. (SIGNATURE)	DATE / TIME	RELINQUISHED BY: (SIGNATURE)	RECEIVED BY LABORATORY: (SIGNATURE)	DATE / TIME
	6-19-97 1630					6/20/97 10:15

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REMARKS

***SOURCE CODES**

- RECOVERY WELL - RW
- RCRA MONITORING WELL - MW
- SOIL / SEDIMENT - SO
- SLUDGE - SL
- NPDES DISCHARGE - ND
- DRINKING WATER - DW
- HAZARDOUS WASTE - HW
- SURFACE WATER - SW
- NON-AQUEOUS - NA